- 1. (Canceled)
- (Currently Amended) The method of claim ½25, further comprising:
 inserting a second component into the slot of the preform after step (e) and before step
 (f); and
 completing step (f) with the second component in the slot.
- 3. (Reinstated and currently amended) The method of claim 1-25, further comprising: inserting a rigid sizing tool into the slot of the preform after step (e) and before step (f); completing step (f) with the sizing tool in the slot; removing the sizing tool after step (f), the slot being sized for insertion of a second component; and inserting the second component into the slot and adhering the second component to the preform.
- 4. (Currently Amended) A method of joining first and second composite components, the method comprising:
 - (a) placing a stack of layers onto a bonding surface of the first component, a first layer of the stack of layers being in contact with the bonding surface and being a woven peel ply layer;
 - (b) providing a plurality of Z-pins in a foam carrier and inserting the Z-pins through the stack of layers into the first component prior to curing the first component by placing the foam carrier in contact with the stack of layers and exerting a force on the foam carrier;
 - (c) curing the first component;

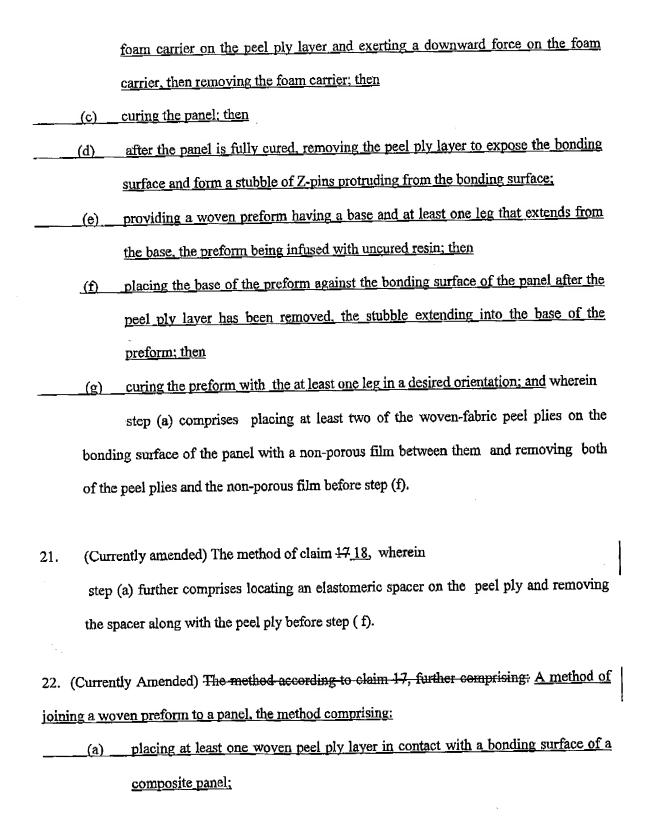
- (d) leveling the Z ins Z-pins to cause ends of the Z-pins to be flush with an exterior surface of the stack of layers with the foam carrier removed;
- (e) providing a woven preform having a base and at least one leg extending from the base;
- (f) removing the stack of layers after the first component has been cured, creating a stubble of Z-pins above the bonding surface, then placing the base of the preform against the bonding surface of the first component, the stubble extending into the base of the preform;
- (g) placing the second component in contact with the leg of the preform; and
- (h) curing the preform to adhere the base of the preform to the first component and the leg of the preform to the second component, joining the components with the preform.
- 5. (Previously presented) The method of claim 4, further comprising:in step (f), inserting adhesive between the base of the preform and the first component.
- 6. (Previously presented) The method of claim 4, further comprising:
 in step (g), inserting adhesive between the leg of the preform and the second component.
- 7. (Previously presented) The method of claim 4, further comprising:
 removing the foam carrier before curing the panel in step (c).
- 8. (Previously presented) The method of claim 4, wherein step (d) comprises:

after curing the panel in step (c) removing at least one of the layers and trimming the stubble to a height equal to a height of the layers that remain on the bonding surface.

- 9. (Previously presented) The method of claim 4, wherein step (d) comprises:
 before curing the panel in step (c), removing at least one of the layers to expose ends of the Z-pins and exerting an additional force on the ends of the Z-pins until the ends are flush with the exterior surface of the remaining layers.
- 10. (Previously presented) The method of claim 4, wherein:
 the peel ply is formed from nylon fibers.
- 11. (Previously presented) The method of claim 4, wherein:
 the peel ply is formed from glass fibers.
- 12. (Previously presented) The method of claim 4, wherein the stack of layers comprises: an elastomeric spacer located above the first layer.
- 13.-17. (Canceled)
- 18. (Currently Amended) The method of claim 17; further comprising: A method of joining a woven preform to a panel, the method comprising:

	(a)	placing at least one woven peel ply layer in contact with a bonding surface of a		
		composite panel;		
	(b)_	providing a plurality of Z-pins within a foam carrier and inserting Z-pins into the		
		peel ply layer and the composite panel prior to curing the panel by placing the		
		foam carrier on the peel ply layer and exerting a downward force on the foam		
		carrier, then removing the foam carrier; then		
	(c)	curing the panel: then		
	(d)	after the panel is fully cured, removing the peel ply layer to expose the bonding		
		surface and form a stubble of Z-pins protruding from the bonding surface;		
	(e)_	providing a woven preform having a base and at least one leg that extends from		
		the base, the preform being infused with uncured resin; then		
	<u>(f)</u>	placing the base of the preform against the bonding surface of the panel after the		
		peel ply layer has been removed, the stubble extending into the base of the		
		preform; then		
	(g)	curing the preform with the at least one leg in a desired orientation; and		
		after application of the peel ply and before insertion of the Z-pins, heating the		
		panel and the peel ply to hot debulk the panel and the peel ply.		
19.	(Cun	rently Amended) The method-of claim 17, further comprising: A method of joining		
a woven preform to a panel, the method comprising:				
	(a)_	placing at least one woven peel ply layer in contact with a bonding surface of a		
		composite panel:		

	(b)_	providing a plurality of Z-pins within a foam carrier and inserting Z-pins into the		
		peel ply layer and the composite panel prior to curing the panel by placing the		
		foam carrier on the peel ply layer and exerting a downward force on the foam		
		carrier, then removing the foam carrier; then		
	(c)	curing the panel; then		
	(d)	after the panel is fully cured, removing the peel ply layer to expose the bonding		
		surface and form a stubble of Z-pins protruding from the bonding surface;		
	(e)_	providing a woven preform having a base and at least one leg that extends from		
		the base, the preform being infused with uncured resin; then		
	<u>(f)</u>	placing the base of the preform against the bonding surface of the panel after the		
		peel ply layer has been removed, the stubble extending into the base of the		
		preform; then		
	(g)	curing the preform with the at least one leg in a desired orientation; and		
		shearing ends of the Z-pins flush with an exterior surface of the peel ply layer		
	befor	re step (f).		
20.	(Curi	rently Amended) The method of claim 17, A method of joining a woven preform to		
a panel, the method comprising:				
	(a)_	placing at least one woven peel ply layer in contact with a bonding surface of a		
		composite panel;		
	(b)	providing a plurality of Z-pins within a foam carrier and inserting Z-pins into the		
		peel ply layer and the composite panel prior to curing the panel by placing the		



providing a plurality of Z-pins within a foam carrier and inserting Z-pins into the (b) peel ply layer and the composite panel prior to curing the panel by placing the foam carrier on the peel ply layer and exerting a downward force on the foam carrier, then removing the foam carrier; then curing the panel; then (c) after the panel is fully cured, removing the peel ply layer to expose the bonding (d) surface and form a stubble of Z-pins protruding from the bonding surface; providing a woven preform having a base and at least one leg that extends from (e) the base, the preform being infused with uncured resin; then placing the base of the preform against the bonding surface of the panel after the (f) peel ply layer has been removed, the stubble extending into the base of the preform; then curing the preform with the at least one leg in a desired orientation; and (g) in step (a) placing additional layers on the woven peel ply before inserting the Z-pins; and after insertion of the Z-pins, removing at least one of the additional layers along with the foam carrier, and leveling the Z-pins to cause ends of the Z-pins to be flush with the remaining layers on the bonding surface of the panel. 23. (Previously presented) The method according to claim 22, wherein the Z-pins are leveled by shearing the ends of the Z-pins after the panel is cured in step (c).

24. (Canceled)

25. (Currently Amended) The method according to claim 24, further comprising A method of				
making a composite structure, the method comprising:				
(a) locating at least two peel plies on the bonding surface of a component, with a first				
one of the peel plies being of a woven material and being in contact with the bonding surface;				
<u>then</u>				
(b) inserting pins through the peel plies and into the component prior to curing of the				
component; then				
(c) curing the component;				
(d) providing a woven preform having a base and two legs extending from the base.				
the legs defining a slot; then				
(e) removing the peel plies to expose a stubble created by the pins and placing the				
base of the preform against the bonding surface of the component, the pins				
extending into the base of the preform;				
(f) curing the preform to adhere the base of the preform to the component;				
wherein step (b) comprises placing a foam carrier containing the pins against the				
peel plies and exerting a downward force on the foam carrier, then removing the foam carrier				
before curing the component in step (c); and wherein the method further comprises				
leveling the pins to cause ends of the pins to be flush with an exterior surface of				
the peel plies after removal of the foam carrier.				
26. (Currently Amended) The method according to claim 24, further comprising A method of				
making a composite structure, the method comprising:				

	_(a) _	locating at least two peel plies on the bonding surface of a component, with a first		
one o	f the pe	eel plies being of a woven material and being in contact with the bonding surface;		
<u>then</u>				
	(b)	inserting pins through the peel plies and into the component prior to curing of the		
		component; then		
	(c)	curing the component;		
	(d)	providing a woven preform having a base and two legs extending from the base,		
		the legs defining a slot; then		
	(e)	removing the peel plies to expose a stubble created by the pins and placing the		
		base of the preform against the bonding surface of the component, the pins		
		extending into the base of the preform:		
	_(f)	curing the preform to adhere the base of the preform to the component;		
		wherein step (b) comprises placing a foam carrier containing the pins against the		
peel	plies a	nd exerting a downward force on the foam carrier, then removing the foam carrier		
before curing the component in step (c); and wherein the method further comprises				
	after	removal of the foam carrier and after curing the component in step (c), removing at		
least one of the peel plies and shearing protruding ends of the pins to be flush with an exterior				
surface of a remaining one of the peel plies.				